

BRUHATH BANGALORE MAHANAGARA PALIKE, DASARAHALLI ZONE

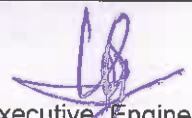
Office of the Executive Engineer, Dasarahalli Division

BILL OF QUANTITIES

NAME OF THE WORK: Improvements to 2nd, 3rd, 4th, 5th & 6th cross roads at Navy Layout in Ward No 14, Bagalagunte

Sl. No	Description of work	Unit	Qty	Approved Rates	
				In Figures (Rs.)	In Words (Rs.)
1	2	3	4	5	6
1	Earthwork excavation by manual means in Ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete and Disposal of debris to the final place of disposal with all lead and lift and as direction by the engineer in charge of the work, lead 5Kms as per specifications complete as per specifications	Cum	854.85	170.92	Rupees One Hundred Seventy and Ninety Two Paise Only
2	Construction of embankment with approved material Gravel/Murum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300-2 complete as per specifications. (which includes cost of gravel / murum, watering charges & compaction by vibratory roller)	Cum	1175.63	320.12	Rupees Three Hundred Twenty and Twelve Paise Only
3	Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180 kgs, with 40 mm and down size graded granite metal coarse aggregates @ 0.85 cum and fine aggregates @ 0.57 cum machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, including cost of all materials, labour HOM of machinery curing complete as per specifications.	Cum	71.25	5159.02	Rupees Five Thousand One Hundred Fifty Nine and Two Paise Only
4	Providing Granite slabs selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete 7.5 thick	Sqm	855.00	665.68	Rupees Six Hundred Sixty Five and Sixty Eight Paise Only


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5	Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occurring during rolling including cost of all labour, HOM of machinery complete as per specifications.	Sqm	237.00	5.30	Rupees Five and Thirty Paise Only
6	For Grading I material construction of granular sub-base by providing coarse graded crushed stone aggregates of Granite/ trap/basalt material spreading in uniform layers with motor grader on prepared surface mixing by a mix in place method with rotawater at OMC, and Compacting with vibratory roller to achieve the desired density, complete as per specifications. by mix in a Place method for coarse Graded Granular Sub Base Material as per 400-2 for grading I material.	Cum	427.43	1518.98	Rupees One Thousand Five Hundred Eighteen and Ninety Eight Paise Only
7	Providing, laying, spreading and compacting graded stone aggregates to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. Specification No. 406 with all leads and lifts etc., complete as per the direction of Engineer-in-charge of the work.	Cum	427.43	1768.08	Rupees One Thousand Seven Hundred Sixty Eight and Eight Paise Only
8	Providing and applying primer coat with S.S. Bitumen emulsion on prepared surface of granular base such as WBM, WMM including clearing of road surface and spraying primer at the rate of 0.6 kg / sqm using mechanical means complete as per specifications, with all leads and lifts etc., complete as per the direction of Engineer-in-charge of the work.	Sqm	2849.50	27.56	Rupees Twenty Seven and Fifty Six Paise Only
9	Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and/or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications.	Sqm	1303.50	3.18	Rupees Three and Eighteen Paise Only

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10	Providing and applying tack coat on the prepared black topped surfaces at 5kg per 10 sqm heating bitumen in boiler fitted with spray set (Excluding cleaning of road surface) including cost of all Materials, labour, HOM of machineries complete as per specifications.	Sqm	2607.00	11.66	Rupees Eleven and Sixty Six Paise Only
11	Providing and laying bituminous macadam on prepared surface with crushed coarse aggregates as per design mix formula for base / binding course including loading of aggregates with F.E. loader, hot mixing of stone aggregates and bitumen in hot mix plant 40 tonne capacity, transporting the mixed material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve the desired density, 50/75mm compacted thickness with 3.3% bitumen but excluding the cost of primer/tack coat with lead incl. cost of all materials, labour, HOM of machineries complete as per specifications with 80/100 grade bitumen using 40/60TPH capacity H.M.P with Mechanical paver Gr II (50/75mm) with 3.3% VG-30 Bitumen as per the directions of Engineer-in-charge of the work	Cum	142.48	5237.46	Rupees Five Thousand Two Hundred Thirty Seven and Forty Six Paise Only
12	Providing and laying bituminous concrete with hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder and filter transporting the hot mix to work site laying with paver finisher to the required grade, level and alignment. rolling with smooth wheeled vibratory and tandem rollers to achieve the desired compaction as per MORTH Specification clause no 500.9 complete in all respects complete as per specification no 509. using 40/60 TPH Capacity H.M.P With Mechanical paver Gr-II (30 mm to 45 mm) with 6% VG-30 Bitumen	Cum	117.48	7270.54	Rupees Seven Thousand Two Hundred Seventy and Fifty Four Paise Only

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